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Uryasev, S.;
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Pages:49 - 57

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Denton, M.; Palmer, A.; Masiello, R.; Skantze, P.;
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Pages:494 - 502

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Moody, J.; Saffell, M.;
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Pages:875 - 889

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Pillai, D.D.;
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D'Vari, R.; Sosa, J.C.; Yalamanchili, K.K.;
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Atar, R.; Dupuis, P.;
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Coit, D.W.; Jin, T.; Wattanapongsakorn, N.;
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Bauerle, N.; Rieder, U.;
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Yon-Chun Chou; Chuan-Shun Wu;
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31 **Exact estimations of empirical risk bias for discrete feature**
Nedel'ko, V.M.;
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1 Article abstracts with full text online: Value-based software engineering: reinventing

Barry Boehm

March 2003 **ACM SIGSOFT Software Engineering Notes**, Volume 28 Issue 2

Full text available: pdf(487.51 KB) Additional Information: full citation, abstract

The Value-Based Software Engineering (VBSE) agenda described in the preceding article has the objectives of integrating value considerations into current and emerging software engineering principles and practices, and of developing an overall framework in which they compatibly reinforce each other. In this paper, we provide a case study illustrating some of the key VBSE practices, and focusing on a particular anomaly in the monitoring and control area: the "Earned Value Management System." This ...

2 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

3 Software economics: a roadmap

Barry W. Boehm, Kevin J. Sullivan

May 2000 **Proceedings of the conference on The future of Software engineering**

Full text available: pdf(2.58 MB) Additional Information: full citation, references, citings, index terms

4 Article abstracts with full text online: Value-based software engineering

Barry Boehm

March 2003 **ACM SIGSOFT Software Engineering Notes**, Volume 28 Issue 2

Full text available: pdf(383.80 KB) Additional Information: full citation, abstract

Much of current software engineering practice and research is done in a value-neutral setting, in which every requirement, use case, object, and defect is treated as equally important; methods are presented and practiced as largely logical activities; and a "separation of concerns" is practiced, in which the responsibility of software engineers is confined to turning software requirements into verified code. In earlier times, when software decisions had relatively minor influences on a system's ...

5 The economics of information security investment
Lawrence A. Gordon, Martin P. Loeb
November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4
Full text available: pdf(461.31 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article presents an economic model that determines the optimal amount to invest to protect a given set of information. The model takes into account the vulnerability of the information to a security breach and the potential loss should such a breach occur. It is shown that for a given potential loss, a firm should not necessarily focus its investments on information sets with the highest vulnerability. Since extremely vulnerable information sets may be inordinately expensive to protect, a f ...

Keywords: Optimal security investment

6 Social Analyses of Computing: Theoretical Perspectives in Recent Empirical Research
Rob Kling
January 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 1
Full text available: pdf(3.98 MB) Additional Information: full citation, references, citings, index terms

7 MANAGE—an interactive simulation model for evaluating the effects of management structure on organization performance
Michael D. Sherman
December 1981 **Proceedings of the 13th conference on Winter simulation - Volume 2**
Full text available: pdf(951.78 KB) Additional Information: full citation, abstract, references, index terms

This paper reports on progress to date in developing a computerized simulation - optimization model of the general management structure of a firm. This model called MANAGE, offers a framework wherein the profit performance of a company can be simulated and assessed under a variety of structural configurations. MANAGE also incorporates certain behavioral parameters that impact upon successful communication within corporate organizations. The paper describes the general framework of the model ...

8 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems
Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker
December 1997 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1
Full text available: pdf(7.24 MB) Additional Information: full citation, citings

9 Competitive solutions for online financial problems
Ran El-Yaniv
March 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 1
Full text available: pdf(331.62 KB) Additional Information: full citation, abstract, references, citings, index terms

This article surveys results concerning online algorihtms for solving problems related to the

management of money and other assets. In particular, the survey focucus us search, replacement, and portfolio selection problems

10 Mariposa: a wide-area distributed database system

Michael Stonebraker, Paul M. Aoki, Witold Litwin, Avi Pfeffer, Adam Sah, Jeff Sidell, Carl Staelin, Andrew Yu

January 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 1

Full text available: pdf(172.75 KB) Additional Information: full citation, abstract, citings, index terms

The requirements of wide-area distributed database systems differ dramatically from those of local-area network systems. In a wide-area network (WAN) configuration, individual sites usually report to different system administrators, have different access and charging algorithms, install site-specific data type extensions, and have different constraints on servicing remote requests. Typical of the last point are production transaction environments, which are fully engaged during normal business h ...

Keywords: Autonomy, Databases, Distributed systems, Economic site, Name service, Wide-area network

11 The impact of information systems on organizations and markets

Vijay Gurbaxani, Seungjin Whang

January 1991 **Communications of the ACM**, Volume 34 Issue 1

Full text available: pdf(3.70 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The adoption of information technology (IT) in organizations has been growing at a rapid pace. The use of the technology has evolved from the automation of structured processes to systems that are truly revolutionary in that they introduce change into fundamental business procedures. Indeed, it is believed that "More than being helped by computers, companies will live by them, shaping strategy and structure to fit new information technology [25]." While the importance of the rel ...

12 Same words, different meanings: are basic IS/IT concepts our self-imposed Tower of Babel?

Steven Alter

May 2000 **Communications of the AIS**

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13 Session 3A: markets and auctions II: An average-case budget-non-negative double auction protocol

Yuko Sakurai, Makoto Yokoo

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 1**

Full text available: pdf(561.88 KB) Additional Information: full citation, abstract, references, citings, index terms

We develop a new strategy-proof double auction protocol characterized as average-case budget-non-negative. It is well-known that there is no strategy-proof double auction protocol that satisfies Pareto efficiency, individual rationality, and budget-balance simultaneously. The existing approach is to give up Pareto efficiency or strategy-proofness by enforcing budget-balance or budget-positive as a hard constraint. We propose a new direction to slightly relax the budget-non negative condition. Al ...

Keywords: double auction, electronic commerce, mechanism design

14 Top management toolbox for managing corporate IT
Niv Ahituv, Moshe Zviran, Chanan Glezer
April 1999 **Communications of the ACM**, Volume 42 Issue 4
Full text available: pdf(195.17 KB) html(36.50 KB) Additional Information: full citation, references, citings, index terms, review

15 Information systems curriculum recommendations for the 80s: undergraduate and graduate programs
Jay F. Nunamaker, J. Daniel Couger, Gordon B. Davis
November 1982 **Communications of the ACM**, Volume 25 Issue 11
Full text available: pdf(2.20 MB) Additional Information: full citation, abstract, references, citings, index terms

The recommendations of the 1972 and 1973 ACM Curriculum Committee on Information Systems programs have been influential in the development of degree programs at the bachelor's, master's, and doctoral levels. The earlier curriculum has been revised and updated based on advances in the field over the past nine years. The report discusses the continuing need for education related to the definition, analysis, design, construction, and management of information systems in organizations. The stru ...

16 Centralized versus decentralized computing: organizational considerations and management options
John Leslie King
December 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 4
Full text available: pdf(3.09 MB) Additional Information: full citation, references, citings, index terms

17 MarketNet: market-based protection of information systems
Y. Yemini, A. Dailianas, D. Florissi, G. Huberman
October 1998 **Proceedings of the first international conference on Information and computation economies**
Full text available: pdf(1.14 MB) Additional Information: full citation, references, citings, index terms

18 Curriculum 68: Recommendations for academic programs in computer science: a report of the ACM curriculum committee on computer science
William F. Atchison, Samuel D. Conte, John W. Hamblen, Thomas E. Hull, Thomas A. Keenan, William B. Kehl, Edward J. McCluskey, Silvio O. Navarro, Werner C. Rheinboldt, Earl J. Schweppe, William Viavant, David M. Young
March 1968 **Communications of the ACM**, Volume 11 Issue 3
Full text available: pdf(6.63 MB) Additional Information: full citation, references, citings

Keywords: computer science academic programs, computer science bibliographies, computer science courses, computer science curriculum, computer science education, computer science graduate programs, computer science undergraduate programs

19 Business process, health care and service industry applications: Financial decision-making: using information generated by a discrete event simulation to evaluate real options in a research and development environment

Jerry Flatto, L. Leslie Gardner

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available: pdf(211.63 KB) Additional Information: full citation, abstract, references

This article examines how a discrete event simulation can be developed to evaluate the impact of real options on a research and development project. Previous work with real options has been primarily mathematically based and the approach was not transferable to actual projects. The results shown in this article indicate that simulation is a valid method to evaluate real options and that the real options do impact the net present value of a process.

20 Pricing computer services: queueing effects

Haim Mendelson

March 1985 **Communications of the ACM**, Volume 28 Issue 3

Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This article studies the effects of queueing delays, and users' related costs, on the management and control of computing resources. It offers a methodology for setting price, utilization, and capacity, taking into account the value of users' time, and it examines the implications of alternative control structures, determined by the financial responsibility assigned to the data processing manager.

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21 Information survivability control systems
Kevin Sullivan, John C. Knight, Xing Du, Steve Geist
May 1999 **Proceedings of the 21st international conference on Software engineering**
Full text available: pdf(1.23 MB) Additional Information: full citation, references, citings, index terms

Keywords: architecture economics, control, infrastructure survivability

22 B. W. Boehm software engineering economics: a review essay
A. Bryant, J. A. Kirkham
July 1983 **ACM SIGSOFT Software Engineering Notes**, Volume 8 Issue 3
Full text available: pdf(1.19 MB) Additional Information: full citation

23 B. W. Boehm software engineering economics: a review essay
A. Bryant, J. A. Kirkham
July 1983 **ACM SIGSOFT Software Engineering Notes**, Volume 8 Issue 3
Full text available: pdf(1.19 MB) Additional Information: full citation

24 Research Contributions: A resource-based analysis of IT sourcing
Vital Roy, Benoit A. Aubert
June 2002 **ACM SIGMIS Database**, Volume 33 Issue 2
Full text available: pdf(287.27 KB) Additional Information: full citation, abstract, references, index terms

This paper studies the relationships between the choice of a sourcing mode for information systems, the value of the resources used in systems development activities and the presence of those resources at a sufficient level within the firm. The objective is to better understand the factors underlying the decision to keep the development of an information system inside the firm or to entrust it to an outside partner. A sourcing model is proposed using the resource-based theory. A case study is us ...

Keywords: management of software development projects, outsourcing, resource-based

theory, software development

25 Advanced tutorials: Options pricing: using simulation for option pricing
John M. Charnes
December 2000 **Proceedings of the 32nd conference on Winter simulation**
Full text available: pdf(76.67 KB) Additional Information: full citation, abstract, references

Monte Carlo simulation is a popular method for pricing financial options and other derivative securities because of the availability of powerful workstations and recent advances in applying the tool. The existence of easy-to-use software makes simulation accessible to many users who would otherwise avoid programming the algorithms necessary to value derivative securities. This paper presents examples of option pricing and variance reduction, and demonstrates their implementation with Crystal Bal ...

26 The use of simulation in accounting: A managerial emphasis
Daniel E. O'Leary
December 1983 **Proceedings of the 15th conference on Winter Simulation - Volume 2**
Full text available: pdf(498.33 KB) Additional Information: full citation, abstract, references, index terms

This paper reviews some of the uses of simulation in accounting. The primary thrust of the paper is toward the area of managerial accounting. However, the paper also examines the use of simulation in auditing and in the public sector.

27 Sequential patterns in information systems development: an application of a social process model
Daniel Robey, Michael Newman
January 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 1
Full text available: pdf(2.38 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We trace the process of developing and implementing a materials management system in one company over a 15-year period. Using a process research model developed by Newman and Robey, we identify 44 events in the process and define them as either encounters or episodes. Encounters are concentrated events, such as meetings and announcements, that separate episodes, which are events of longer duration. By examining the sequence of events over the 15 years of the case, we identify a pattern of r ...

Keywords: social processes, system implementation

28 Is more information better? The effect of traders' irrational behavior on an artificial stock market
Wei T. Yue, Alok R. Chaturvedi, Shailendra Mehta
December 2000 **Proceedings of the twenty first international conference on Information systems**
Full text available: pdf(189.28 KB) Additional Information: full citation, references, index terms

29 Reinterpreting the demise of hierarchy: a case study in IT, empowerment, and incomplete contracts
Jonathan Wareham, Niels Bjørn-Andersen, Peter Neergaard
December 1997 **Proceedings of the eighteenth international conference on Information systems**

Full text available: pdf(74.60 KB) Additional Information: full citation, references

Keywords: economic theory, empowerment, hierarchies, incentive structures, incomplete contracts, organization theory, reengineering

30 Cellular and hybrid networks: ARC: an integrated admission and rate control framework for CDMA data networks based on non-cooperative games

Haitao Lin, Mainak Chatterjee, Sajal K. Das, Kalyan Basu

September 2003 **Proceedings of the 9th annual international conference on Mobile computing and networking**

Full text available: pdf(345.66 KB) Additional Information: full citation, abstract, references, citings, index terms

The competition among wireless data service providers brings in an option for the customers to switch their providers, due to unsatisfactory service or otherwise. However, the existing resource management algorithms for wireless networks fail to fully capture the far-reaching impact of this *competitiveness*. From this perspective, we propose an integrated *admission and rate control* (ARC) framework for CDMA based wireless data networks. The admission control is at the *session* ...

Keywords: CDMA systems, admission control, non-cooperative games, rate control, wireless data networks

31 Workshop and conference summaries: Practitioners do good work

L. B. S. Raccoon

March 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 2

Full text available: pdf(808.46 KB) Additional Information: full citation, abstract, references, citings

I believe that software engineers have done, are doing, and will continue to do good work. Practitioners contribute to the well-being of society and add value to the economy. Working applications enable hundreds of millions of users around the world to productively do things that would otherwise be impossible.I do not claim that software engineers are perfect. Bugs seem to lurk in almost all programs. Reliable schedules and budgets remain elusive. And, software has created whole new slates of pr ...

32 Section 04: reflecting on practice: Technology choice as a first step in design: the interplay of procedural and sensemaking processes

Mark Bergman, Gloria Mark

June 2002 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Full text available: pdf(1.27 MB) Additional Information: full citation, abstract, references, index terms

Project design involves an initial selection of technologies, which has strong consequences for later stages of design. In this paper we describe an ethnographic-based field work study of a complex organization, and how it addressed the issue of front-end project and technology selection. Formal procedures were designed for the organization to perform repeatable, definable, and measurable actions. Yet, formal procedures obscured much about the processes actually being applied in selecting techno ...

Keywords: design, organizations, project choice, requirements analysis, sensemaking, technology choice

33 Information technology, process reengineering, and performance measurement: a balanced scorecard analysis of Compaq computer corporation
William F. Wright, Rodney Smith, Ryan Jesser, Mark Stupeck
February 1999 **Communications of the AIS**
Full text available: pdf(284.66 KB) Additional Information: full citation, references, index terms

34 The Soviet Bloc's Unified System of Computers
N. C. Davis, S. E. Goodman
June 1978 **ACM Computing Surveys (CSUR)**, Volume 10 Issue 2
Full text available: pdf(2.76 MB) Additional Information: full citation, references, citings, index terms

35 The economics of designing generalized software
Frank Milne, Ron Weber
August 1983 **Communications of the ACM**, Volume 26 Issue 8
Full text available: pdf(913.42 KB) Additional Information: full citation, abstract, references, citings, index terms

The choice of the attributes to be incorporated in a generalized software package is a complex design task, much like the choice of the characteristics of the basic model and the options to be offered when a new automobile is being designed. Some empirical evidence available suggests that the choices made by generalized software designers are not always well founded; for example, some functions included in the software are hardly, if ever, used, while functions that would be used ex ...

Keywords: generalized software design, software economics

36 Value conflicts in the deployment of computing applications
Rob Kling
January 1984 **Proceedings of the ACM 12th annual computer science conference on SIGCSE symposium**
Full text available: pdf(1.66 MB) Additional Information: full citation, abstract, references, citings, index terms

Computing technologies importantly affect the social climate of the organizations into which they are introduced. Widespread computing developments are rarely socially neutral, since they absorb scarce resources, and re-allocate them by limiting access to the data, equipment, expertise, and other resources they utilize. This paper examines the value conflicts engendered by computing developments in two different institutional settings: electronic funds transfer systems and instru ...

37 Fifty years of progress in software engineering
L. B. S. Raccoon
January 1997 **ACM SIGSOFT Software Engineering Notes**, Volume 22 Issue 1
Full text available: pdf(2.24 MB) Additional Information: full citation, abstract, index terms

In this paper, I describe a new outlook on the history of Software Engineering. I portray large-scale structures within Software Engineering to give a better understanding of the flow of history. I use these large-scale structures to reveal the steady, ongoing evolution of concepts, and show how they relate to the myriad whorls and eddies of change. I also have four smaller, more specific purposes in writing this paper.First, I want to point out that old ideas do not die. In The Mythical Man-Mon ...

38 Equilibrium bandwidth and buffer allocations for elastic traffics

Steven H. Low
June 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 3
Full text available: pdf(339.27 KB) Additional Information: full citation, references, citings, index terms

Keywords: bandwidth and buffer allocation, elastic traffic, equilibrium allocation, equilibrium pricing

39 Area and performance tradeoffs in floating-point divide and square-root implementations

Peter Soderquist, Miriam Leeser
September 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 3
Full text available: pdf(700.72 KB) Additional Information: full citation, abstract, references, citings, index terms

Floating-point divide and square-root operations are essential to many scientific and engineering applications, and are required in all computer systems that support the IEEE floating-point standard. Yet many current microprocessors provide only weak support for these operations. The latency and throughput of division are typically far inferior to those of floating-point addition and multiplication, and square-root performance is often even lower. This article argues the case for high-perf ...

Keywords: FPU, SRT, area and performance tradeoffs, division, floating-point, square root

40 Decision process simulation models of defense contractor behavior

Kalman J. Cohen, Arie Y. Lewin, Richard C. Morey
December 1979 **Proceedings of the 11th conference on Winter simulation - Volume 1**
Full text available: pdf(698.85 KB) Additional Information: full citation, abstract, references, citings, index terms

The demand for defense systems is determined by a single buyer - the U.S. Department of Defense. In such an environment traditional competitive market mechanisms cannot be expected to operate effectively. Historically, the objective of procurement policies has been to prevent excess profits. This has resulted in bilateral contractual arrangements based on cost reimbursement, with low profits for the contractor and with the government bearing most of the risks. However, studies which have in ...

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41 A correlated distribution simulation model for capital budgeting
Charles L. Crabtree, Lyman C. Dennis
December 1969 **Proceedings of the third conference on Applications of simulation**
Full text available: pdf(735.02 KB) Additional Information: full citation, abstract, index terms

A simulation model for the analysis of capital projects is presented. A mechanism included in the model for approximating dependencies between variables is described and the effects of the mechanism's operation are analyzed and documented.

42 Design technology productivity in the DSM era (invited talk)
Andrew B. Kahng
January 2001 **Proceedings of the 2001 conference on Asia South Pacific design automation**
Full text available: pdf(126.72 KB) Additional Information: full citation, abstract, references, index terms

Future requirements for design technology are always uncertain due to changes in process technology, system implementation platforms, and applications markets. To correctly identify the design technology need, and to deliver this technology at the right time, the design technology community - commercial vendors, captive CAD organizations, and academic researchers - must focus on improving design technology time-to-market and quality-of-result. Put another way, we must address the well-known ...

43 Putting the byte on Canadian social welfare agencies
Cynthia Alexander
August 1990 **ACM SIGCAS Computers and Society , Proceedings of the conference on Computers and the quality of life**, Volume 20 Issue 3
Full text available: pdf(1.05 MB) Additional Information: full citation, references, index terms

44 Session 7A: bidding and bargaining agents II: Strategic sequential bidding in auctions using dynamic programming
Gerald Tesauro, Jonathan L. Bredin
July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2**
Full text available: pdf(162.84 KB) Additional Information: full citation, abstract, references, citings, index terms

We develop a general framework in which real-time Dynamic Programming (DP) can be used to formulate agent bidding strategies in a broad class of auctions characterized by sequential bidding and continuous clearing. In this framework, states are represented primarily by an agent's holdings, and transition probabilities are estimated from the market event history, along the lines of the "belief function" approach of Gjerstad and Dickhaut [7]. We use the belief function, combined with a forecast of ...

Keywords: auctions, bidding and bargaining agents, dynamic programming, electronic commerce, multi-agent based simulation

45 Simulation systems for logistics support planning

Donald F. Blumberg

December 1969 **Proceedings of the third conference on Applications of simulation**

Full text available: pdf(664.20 KB) Additional Information: full citation, abstract, references, index terms

Many organizations now operate, or are planning the operation of complex logistics and maintenance support systems that defy analysis by any of the existing analytical techniques and inventory models. These logistics systems are characterized by having a mix of high-value reparable parts with relatively low demand over time. In addition, such complex support systems are generally composed of several locations where the repair and stock locations may not be the same. The given problem is to ...

46 AkBA: a progressive, anonymous-price combinatorial auction

Peter R. Wurman, Michael P. Wellman

October 2000 **Proceedings of the 2nd ACM conference on Electronic commerce**

Full text available: pdf(346.01 KB) Additional Information: full citation, references, citings, index terms

Keywords: combinatorial auctions, equilibrium prices, progressive auctions

47 Software engineering environment: Software estimation using the SLIM tool

Nikki Panlilio-Yap

November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 1**

Full text available: pdf(1.29 MB) Additional Information: full citation, abstract, references

Planning the development of a software product involves estimating the required effort, project duration, resource allocation, and latent defects when the product ships. Coming up with reasonable estimates seems to be a pervasive problem. In the absence of an internally developed tool based on historical data from the IBM Canada Ltd. Laboratory or similar IBM laboratories, the use of one or more commercially available estimation tools is useful. Some of these tools have underlying models based o ...

48 Challenges in modeling demand for inventory optimization of slow-moving items

Frank Grange

December 1998 **Proceedings of the 30th conference on Winter simulation**

Full text available: pdf(69.69 KB) Additional Information: full citation, references, index terms

49 The winter simulation conference: celebrating twenty-five years of progress

Robert C. Crain, Joseph M. Sussman, Thomas J. Schriber, James O. Henriksen, Stephen D. Roberts

December 1992 **Proceedings of the 24th conference on Winter simulation**

Full text available: pdf(3.37 MB) Additional Information: full citation, references, citings, index terms

50 Back matter (abstracts and calendar)

ACM SIGSOFT Software Engineering Notes staff

March 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 2

Full text available: pdf(2.18 MB) Additional Information: full citation

51 Combinatorial auctions for supply chain formation

William E. Walsh, Michael P. Wellman, Fredrik Ygge

October 2000 **Proceedings of the 2nd ACM conference on Electronic commerce**

Full text available: pdf(4.36 MB) Additional Information: full citation, references, citings, index terms

52 Multiprocessor SoC MPSoC solutions/nightmare: Flexible architectures for engineering successful SOCs

Chris Rowen, Steve Leibson

June 2004 **Proceedings of the 41st annual conference on Design automation**

Full text available: pdf(96.22 KB) Additional Information: full citation, abstract, index terms

This paper focuses on a particular SOC design technology and methodology, here called the advanced or processor-centric SOC design method, which reduces the risk of SOC design and increases ROI by using configurable processors to implement on-chip functions while increasing the SOC's flexibility through software programmability. The essential enabler for this design methodology is automatic processor generation-the rapid and easy creation of new microprocessor architectures, complete with effici ...

Keywords: MPSOC, RISC, RTL, SOC, processor cores

53 Strategic computing at DARPA: overview and assessment

Mark Stefik

July 1985 **Communications of the ACM**, Volume 28 Issue 7

Full text available: pdf(1.98 MB) Additional Information: full citation, abstract, references, citings, index terms

Strategic Computing, a 10-year initiative to build faster and more intelligent systems, is ambitious, flawed by overscheduling perhaps and problems of definition, but basically sound.

54 Variance reallocation in Taguchi's robust design framework

Lee W. Schruben, Susan M. Sanchez, Paul J. Sanchez, Veronica A. Czitrom

December 1992 **Proceedings of the 24th conference on Winter simulation**

Full text available: pdf(917.75 KB) Additional Information: full citation, references, citings, index terms

55 Draft report on requirements for a common prototyping system

R. P. Gabriel

March 1989 **ACM SIGPLAN Notices**, Volume 24 Issue 3

Full text available: pdf(4.76 MB) Additional Information: full citation, citings, index terms

56 Watermarking techniques for intellectual property protection

A. B. Kahng, J. Lach, W. H. Mangione-Smith, S. Mantik, I. L. Markov, M. Potkonjak, P. Tucker, H. Wang, G. Wolfe

May 1998 **Proceedings of the 35th annual conference on Design automation - Volume 00**

Full text available: pdf(243.93 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

Digital system designs are the product of valuable effort and know-how. Their embodiments, from software and HDL program down to device-level netlist and mask data, represent carefully guarded intellectual property (IP). Hence, design methodologies based on IP reuse require new mechanisms to protect the rights of IP producers and owners. This paper establishes principles of watermarking-based IP protection, where a watermark is a mechanism for identificatio ...

Keywords: intellectual property test, system-on-chip test, testing embedded core

57 Ada's impact: a quantitative assessment

Donald J. Reifer

December 1987 **Proceedings of the 1987 annual ACM SIGAda international conference on Ada**

Full text available: pdf(1.17 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper reports an update to the results of its one year study conducted by RCI in 1986 for five of its clients to determine the impact of Ada™ on software cost, productivity and quality. The paper begins by discussing the study's goals and the approach used to realize them. It then summarizes the actual experience over 41 projects which delivered over 15 million lines of Ada™ code for a variety of applications, mostly real-time. It presents facts and figures drawn from a det ...

58 From formal models to formally based methods: an industrial experience

Emanuele Ciapessoni, Piergiorgio Mirandola, Alberto Coen-Porisini, Dino Mandrioli, Angelo Morzenti

January 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 1

Full text available: pdf(239.61 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We address the problem of increasing the impact of formal methods in the practice of industrial computer applications. We summarize the reasons why formal methods so far did not gain widespead use within the industrial environment despite several promising experiences. We suggest an evolutionary rather than revolutionary attitude in the introduction of formal methods in the practice of industrial applications, and we report on our long-standing experience which involves an academic institut ...

Keywords: formal models, industrial applications, object orientation, specification, supervision and control, technology transfer

59 Market-based resource control for mobile agents

Jonathan Bredin, David Kotz, Daniela Rus

May 1998 **Proceedings of the second international conference on Autonomous agents**

Full text available: pdf(1.11 MB) Additional Information: full citation, references, citings, index terms

60 On the quantification of e-business capacity

Moises Goldszmidt, Derek Palma, Bikash Sabata

October 2001 **Proceedings of the 3rd ACM conference on Electronic Commerce**

Full text available: pdf(1.13 MB) Additional Information: full citation, abstract, references, index terms

In order for current e-Businesses to mature from hastily assembled systems and applications, formal processes must be put in place for planning and budgeting, pricing and costing, and for establishing quality of service and service--level assurances. There are many challenges that e-Businesses face in formalizing these processes. The most important problem is to bridge the semantic disconnect between business objectives and the information system performance objectives. Next, the characterizatio ...

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1	6,792,399	Combination forecasting using clusterization
2	6,785,592	System and method for energy management
3	6,760,748	Instructional system grouping student terminals
4	6,742,015	Base services patterns in a netcentric environment
5	6,728,113	Method and apparatus for non-conductively interconnecting integrated circuits
6	6,721,713	Business alliance identification in a web architecture framework
7	6,715,145	Processing pipeline in a base services pattern environment
8	6,671,818	Problem isolation through translating and filtering events into a standard object format in a network based supply chain
9	6,671,585	System, method and computer program product for enhancing commercial value of electrical power produced from a renewable energy power production facility
10	6,665,489	System, method and article of manufacturing for authorizing the use of electronic content utilizing a laser-centric medium and a network server
11	6,658,467	Provision of informational resources over an electronic network
12	6,640,249	Presentation services patterns in a netcentric environment
13	6,640,244	Request batcher in a transaction services patterns environment
14	6,640,238	Activity component in a presentation services patterns environment
15	6,636,242	View configurer in a presentation services patterns environment
16	6,615,253	Efficient server side data retrieval for execution of client side applications
17	6,615,199	Abstraction factory in a base services pattern environment
18	6,615,166	Prioritizing components of a network framework required for implementation of technology

19 6,606,744 Providing collaborative installation management in a network-based supply chain environment
20 6,606,660 Stream-based communication in a communication services patterns environment
21 6,606,615 Forecasting contest
22 6,601,234 Attribute dictionary in a business logic services environment
23 6,601,192 Assertion component in environment services patterns
24 6,584,447 Method and computer program product for weather adapted, consumer event planning
25 6,578,068 Load balancer in environment services patterns
26 6,571,282 Block-based communication in a communication services patterns environment
27 6,567,824 Integrated inventory management system
28 6,550,057 Piecemeal retrieval in an information services patterns environment
29 6,549,949 Fixed format stream in a communication services patterns environment
30 6,539,396 Multi-object identifier system and method for information service pattern environment
31 6,536,037 Identification of redundancies and omissions among components of a web based architecture
32 6,529,948 Multi-object fetch component
33 6,529,909 Method for translating an object attribute converter in an information services patterns environment
34 6,519,571 Dynamic customer profile management
35 6,512,966 System, method and computer program product for enhancing commercial value of electrical power produced from a renewable energy power production facility
36 6,502,213 System, method, and article of manufacture for a polymorphic exception handler in environment services patterns
37 6,496,850 Clean-up of orphaned server contexts
38 6,480,861 Distributed adaptive computing
39 6,477,665 System, method, and article of manufacture for environment services patterns in a netcentic environment
40 6,477,580 Self-described stream in a communication services patterns environment
41 6,477,520 Adaptive travel purchasing optimization system
42 6,473,794 System for establishing plan to test components of web based framework by displaying pictorial representation and conveying indicia coded components of existing network framework
43 6,473,084 Prediction input
44 6,453,420 System, method and article of manufacture for authorizing the use of electronic content utilizing a laser-centric medium
45 6,442,748 System, method and article of manufacture for a persistent state and persistent object separator in an information services patterns environment
46 6,438,594 Delivering service to a client via a locally addressable interface
47 6,434,628 Common interface for handling exception interface name with additional prefix and suffix for handling exceptions in environment services patterns
48 6,434,568 Information services patterns in a netcentric environment
49 6,408,263 Management training simulation method and system
50 6,405,203 Method and program product for preventing unauthorized users from using the content of an electronic storage medium

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51	6,339,832	Exception response table in environment services patterns
52	6,332,163	Method for providing communication services over a computer network system
53	6,309,067	Single-vision ophthalmic lens series
54	6,289,382	System, method and article of manufacture for a globally addressable interface in a communication services patterns environment
55	6,253,187	Integrated inventory management system
56	6,236,955	Management training simulation method and system
57	6,223,274	Power-and speed-efficient data storage/transfer architecture models and design methodologies for programmable or reusable multi-media processors
58	6,219,650	Method of determining optimal asset allocation utilizing asset cash flow simulation
59	6,209,644	Assembly and method for forming a seal in a junction of a multilateral well bore
60	6,112,188	Privatization marketplace
61	6,112,181	Systems and methods for matching, selecting, narrowcasting, and/or classifying based on rights management and/or other information
62	6,092,047	Apparatus and method of composing a plan of flexible benefits
63	6,089,710	Single-vision ophthalmic lens series
64	6,078,901	Quantitative supply and demand model based on infinite spreadsheet
65	6,061,691	Method and system for inventory management
66	6,055,517	Method of determining optimal asset allocation utilizing asset cash flow simulation
67	5,954,640	Nutritional optimization method
68	5,875,437	System for the operation and management of one or more financial accounts through the use of a

digital communication and computation system for exchange, investment and borrowing

69 5,832,456 System and method for weather adapted, business performance forecasting

70 5,806,047 System for combined pool portfolio

71 5,798,939 System for optimizing power network design reliability

72 5,701,400 Method and apparatus for applying if-then-else rules to data sets in a relational data base and generating from the results of application of said rules a database of diagnostics linked to said data sets to aid executive analysis of financial data

73 5,644,727 System for the operation and management of one or more financial accounts through the use of a digital communication and computation system for exchange, investment and borrowing

74 5,629,838 Apparatus for non-conductively interconnecting integrated circuits using half capacitors

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